

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088231.D
 Acq On : 25 Oct 2014 4:27
 Operator : TP/JJ
 Sample : F4368-20
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS43-1014

Quant Time: Oct 27 13:46:57 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102414.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 27 13:04:40 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	31080	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	119485	5.00	ng	0.00
7) Acenaphthene-d10	10.83	164	64868	5.00	ng	0.00
12) Phenanthrene-d10	12.94	188	136586	5.00	ng	0.00
16) Chrysene-d12	18.34	240	79251	5.00	ng	0.00
22) Perylene-d12	21.40	264	62027	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.81	82	392480	43.48	ng	0.01
8) 2-Fluorobiphenyl	10.02	172	509162	28.15	ng	0.00
18) Terphenyl-d14	16.13	244	476154	36.69	ng	0.02

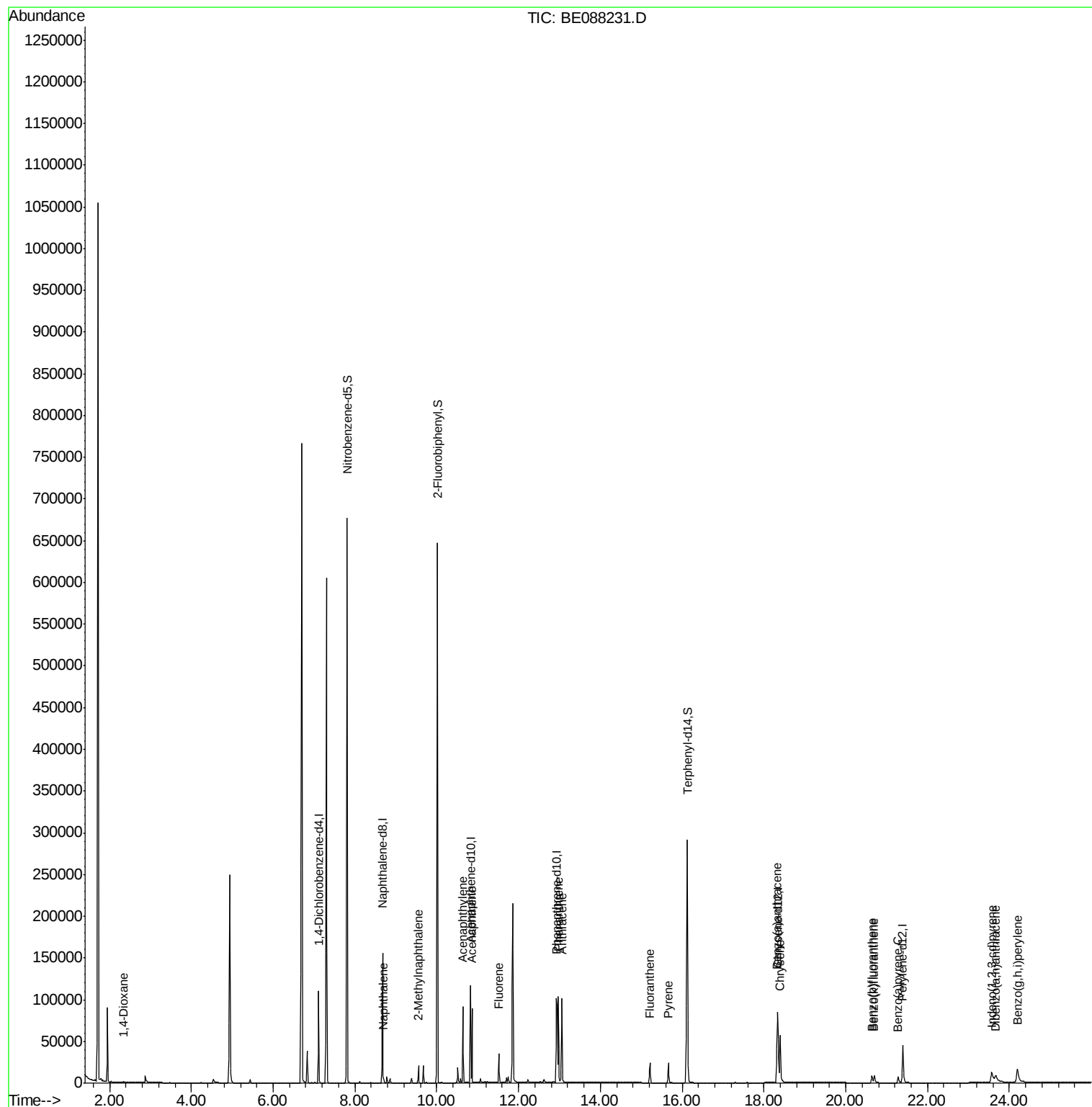
Target Compounds						Qvalue
2) 1,4-Dioxane	2.34	88	532	0.12	ng	# 82
5) Naphthalene	8.70	128	7970	0.33	ng	99
6) 2-Methylnaphthalene	9.55	142	9448	0.64	ng	99
9) Acenaphthylene	10.64	152	76568	0.79	ng	100
10) Acenaphthene	10.86	154	12511	0.82	ng	97
11) Fluorene	11.52	166	15073	0.96	ng	99
13) Phenanthrene	12.97	178	118997	0.90	ng	94
14) Anthracene	13.06	178	97240	1.00	ng	99
15) Fluoranthene	15.21	202	22507	1.13	ng	99
17) Pyrene	15.66	202	23281	1.07	ng	100
19) Benzo(a)anthracene	18.33	228	69497	1.11	ng	99
20) Chrysene	18.40	228	71923	1.02	ng	99
21) Indeno(1,2,3-cd)pyrene	23.57	276	28614	0.61	ng	# 73
23) Benzo(b)fluoranthene	20.64	252	13086	1.13	ng	100
24) Benzo(k)fluoranthene	20.70	252	16930	1.06	ng	100
25) Benzo(a)pyrene	21.28	252	12133	1.07	ng	99
26) Dibenzo(a,h)anthracene	23.67	278	8433	0.86	ng	99
27) Benzo(g,h,i)perylene	24.19	276	41764	0.84	ng	99

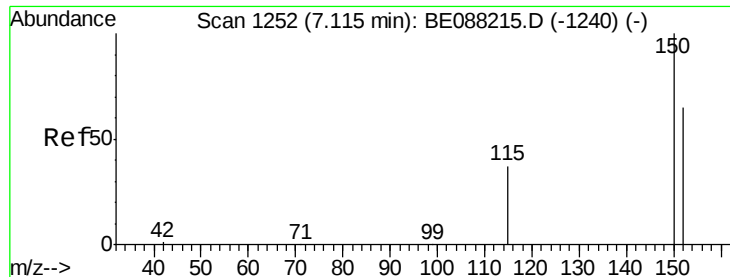
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

Instrument :

BNA_E

ClientSampleId :

YS19-SS43-1014

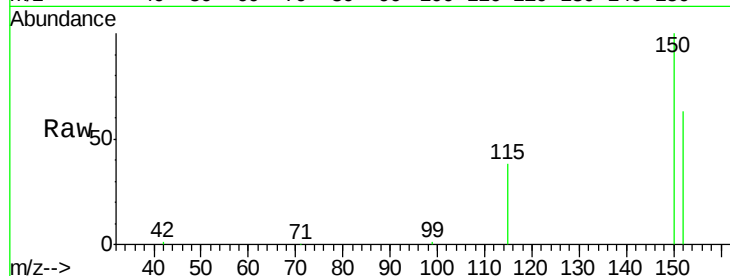
Tgt Ion:152 Resp: 31080

Ion Ratio Lower Upper

152 100

150 158.6 123.2 184.8

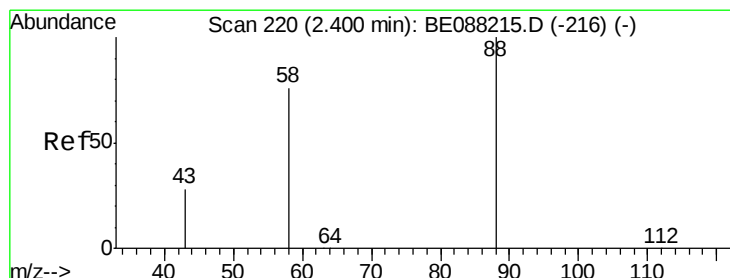
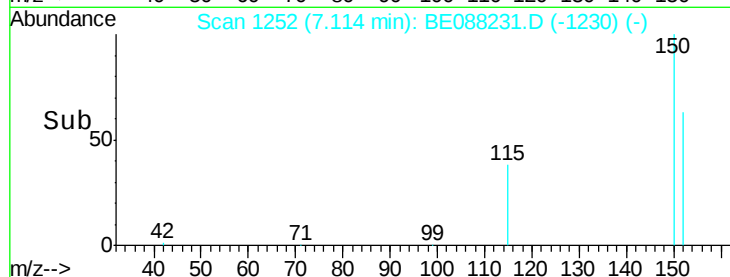
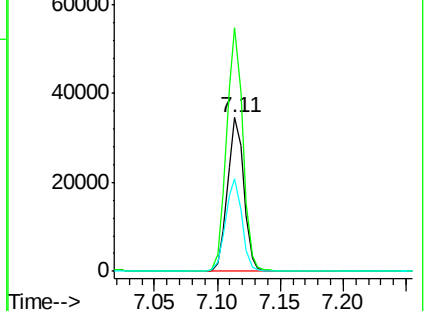
115 60.3 45.3 67.9



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.12 ng

RT: 2.34 min Scan# 208

Delta R.T. -0.06 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

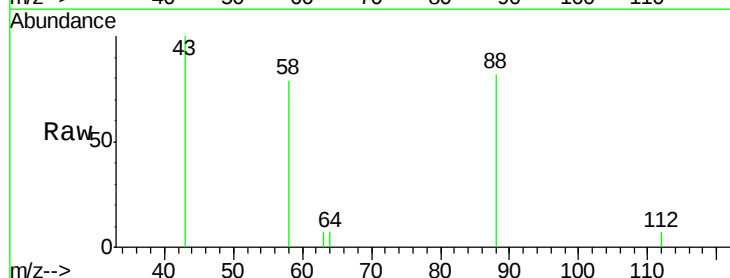
Tgt Ion: 88 Resp: 532

Ion Ratio Lower Upper

88 100

58 78.0 59.0 88.4

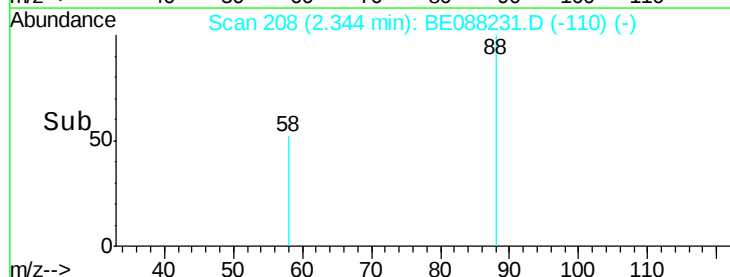
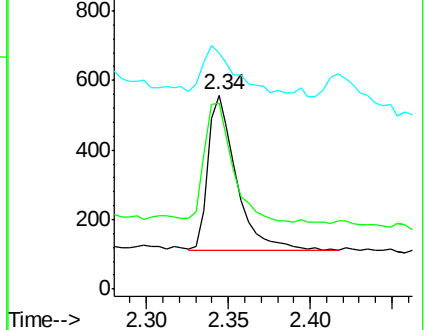
43 0.0 21.9 32.9#

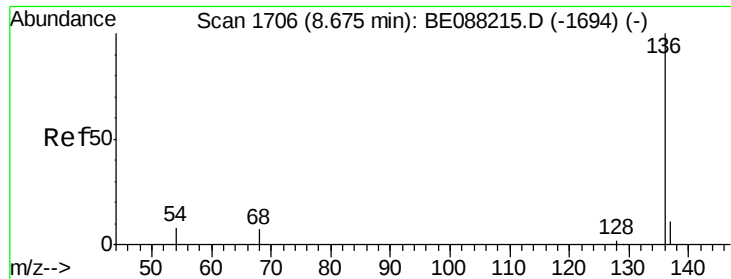


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.68 min Scan# 1707

Delta R.T. 0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

Instrument :

BNA_E

ClientSampleId :

YS19-SS43-1014

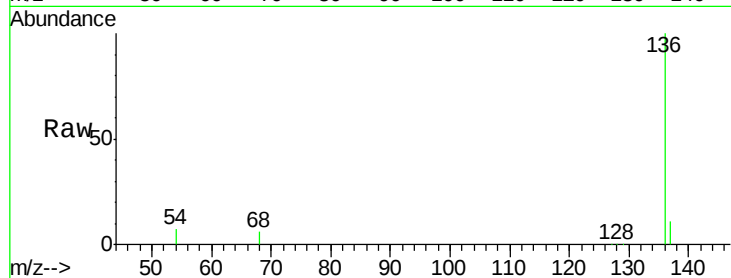
Tgt Ion: 136 Resp: 119485

Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

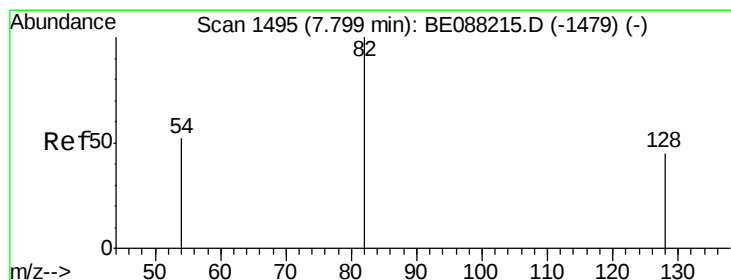
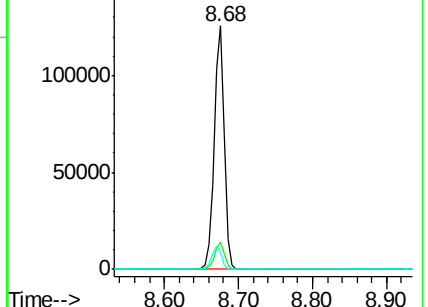
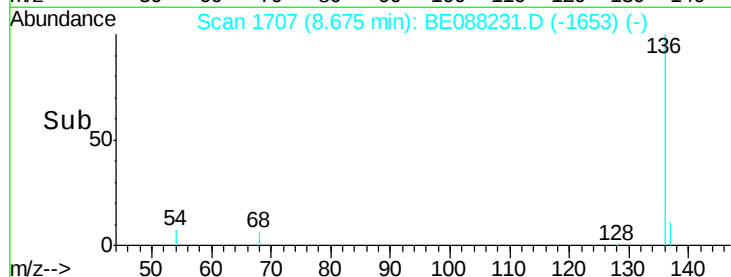
54 6.9 6.1 9.1



Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0



#4

Nitrobenzene-d5

Concen: 43.48 ng

RT: 7.81 min Scan# 1500

Delta R.T. 0.01 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

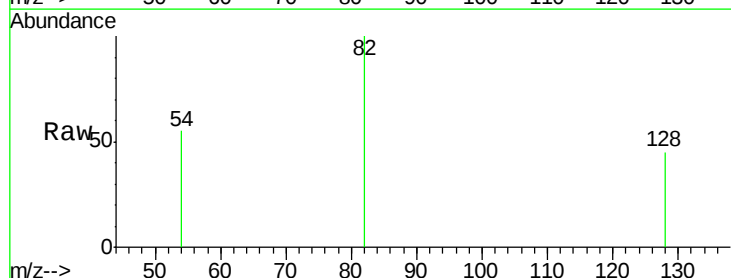
Tgt Ion: 82 Resp: 392480

Ion Ratio Lower Upper

82 100

128 45.0 36.2 54.2

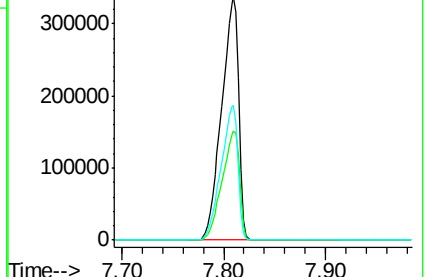
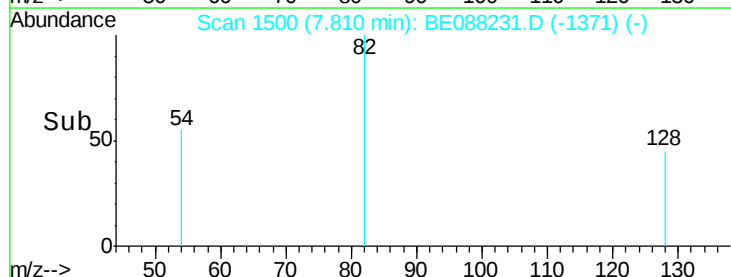
54 55.5 41.8 62.8

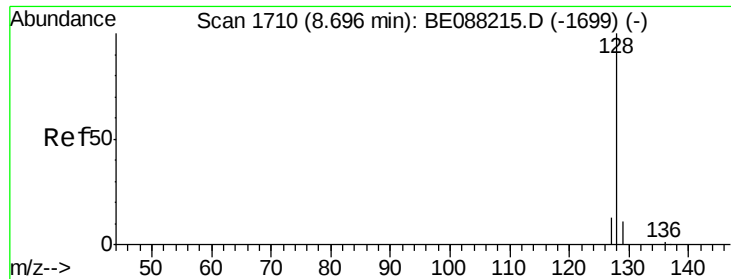


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 0.33 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

Instrument :

BNA_E

ClientSampleId :

YS19-SS43-1014

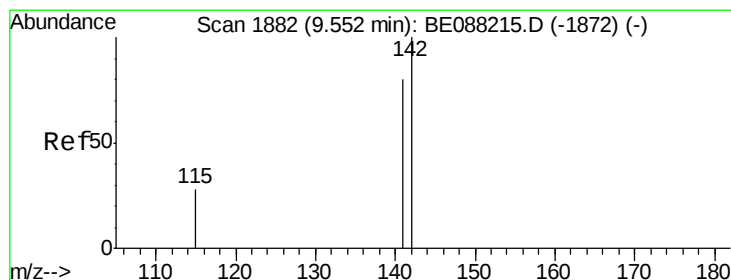
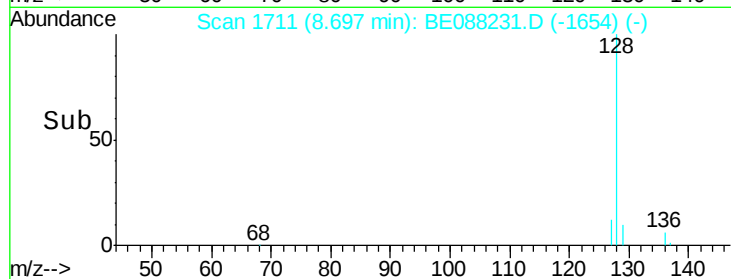
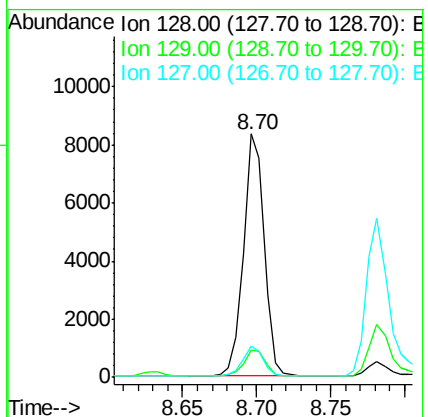
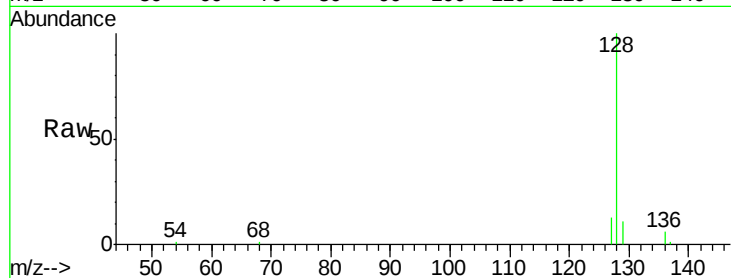
Tgt Ion:128 Resp: 7970

Ion Ratio Lower Upper

128 100

129 11.1 8.6 12.8

127 12.9 10.4 15.6



#6

2-Methylnaphthalene

Concen: 0.64 ng

RT: 9.55 min Scan# 1883

Delta R.T. 0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

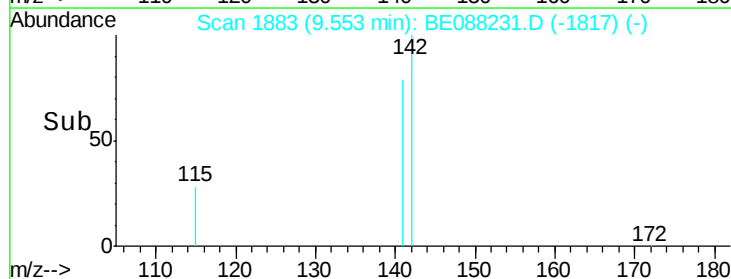
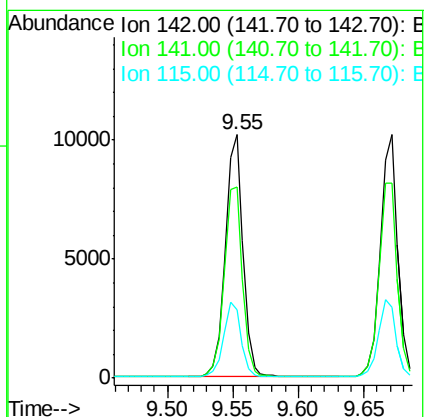
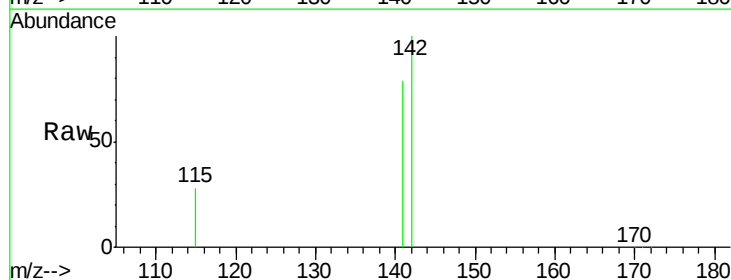
Tgt Ion:142 Resp: 9448

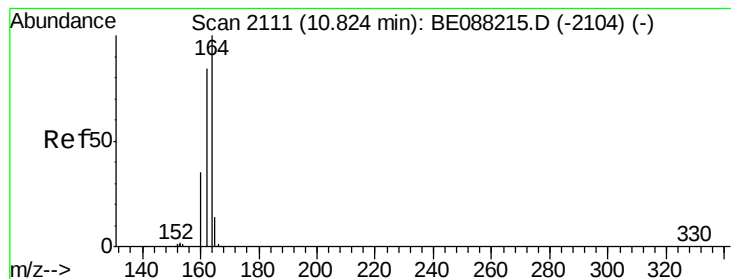
Ion Ratio Lower Upper

142 100

141 78.6 63.7 95.5

115 28.2 22.6 34.0





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.83 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

Instrument :

BNA_E

ClientSampleId :

YS19-SS43-1014

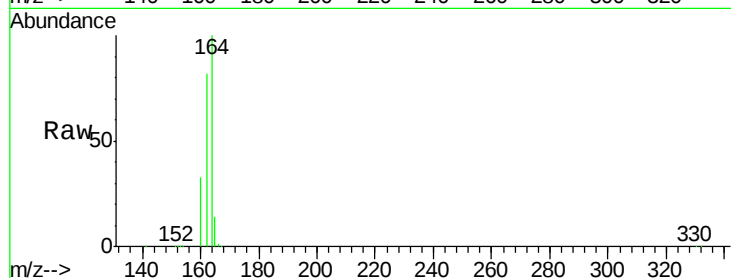
Tgt Ion:164 Resp: 64868

Ion Ratio Lower Upper

164 100

162 82.3 67.4 101.0

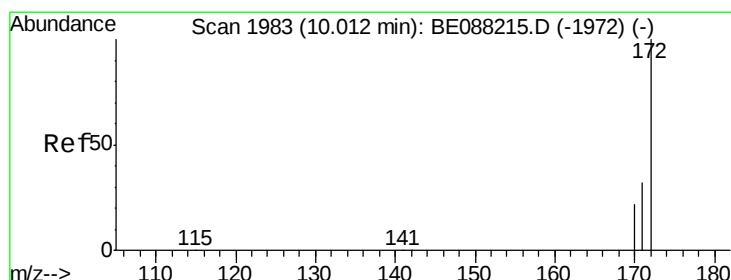
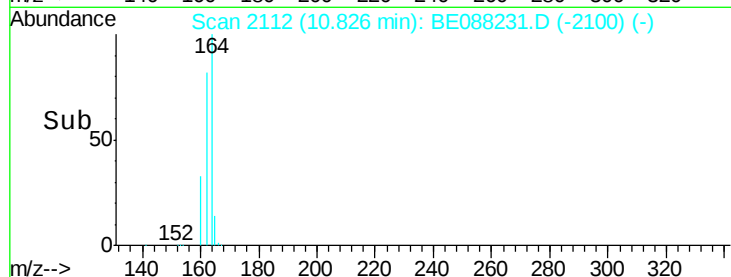
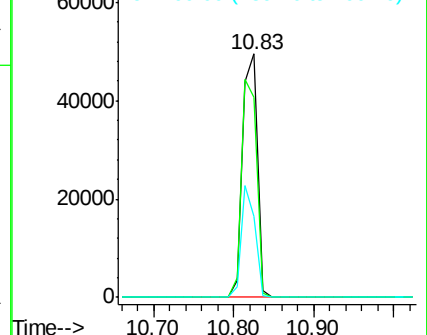
160 33.0 27.7 41.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#8

2-Fluorobiphenyl

Concen: 28.15 ng

RT: 10.02 min Scan# 1986

Delta R.T. 0.01 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

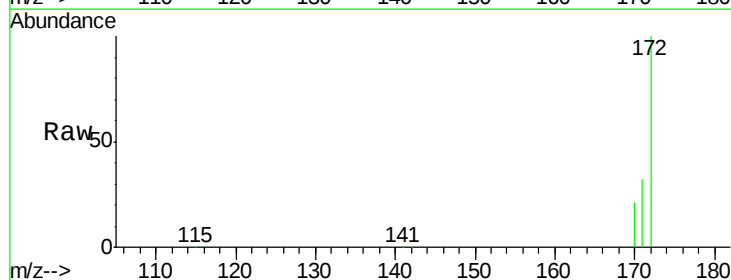
Tgt Ion:172 Resp: 509162

Ion Ratio Lower Upper

172 100

171 32.2 25.8 38.6

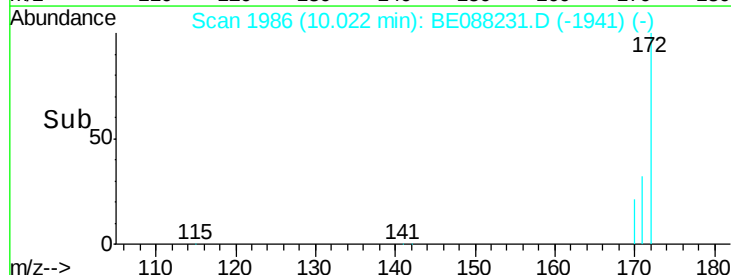
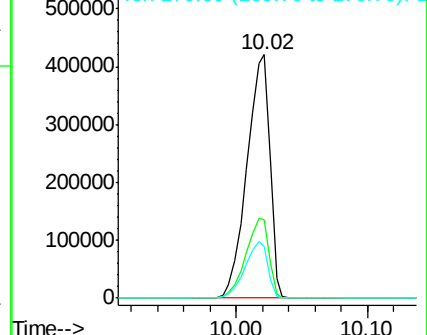
170 21.2 17.4 26.0

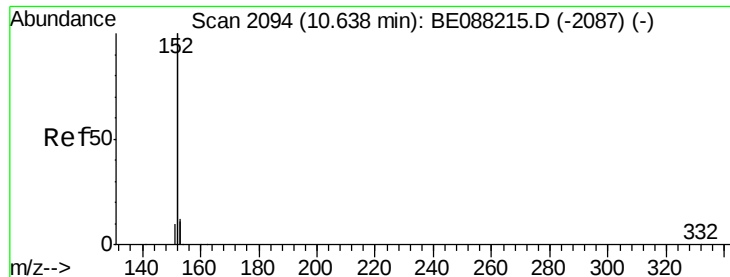


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.79 ng

RT: 10.64 min Scan# 2095

Delta R.T. 0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

Instrument :

BNA_E

ClientSampleId :

YS19-SS43-1014

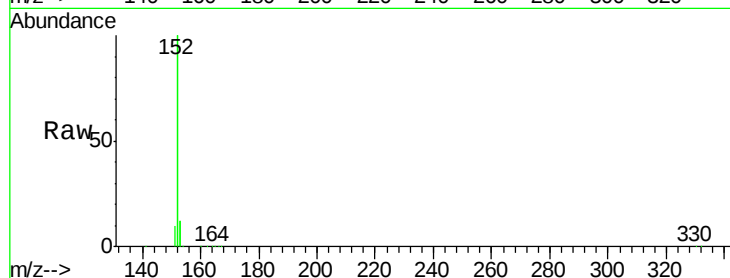
Tgt Ion:152 Resp: 76568

Ion Ratio Lower Upper

152 100

151 4.6 3.7 5.5

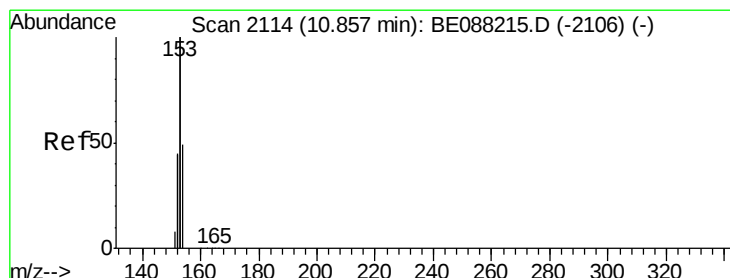
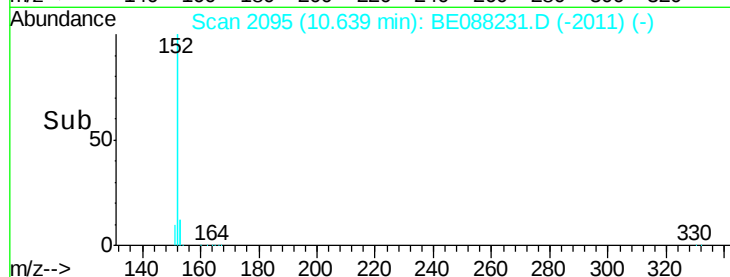
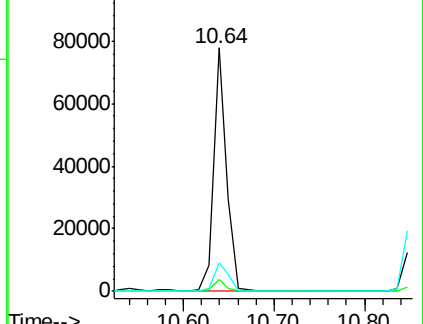
153 13.0 10.3 15.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#10

Acenaphthene

Concen: 0.82 ng

RT: 10.86 min Scan# 2115

Delta R.T. 0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

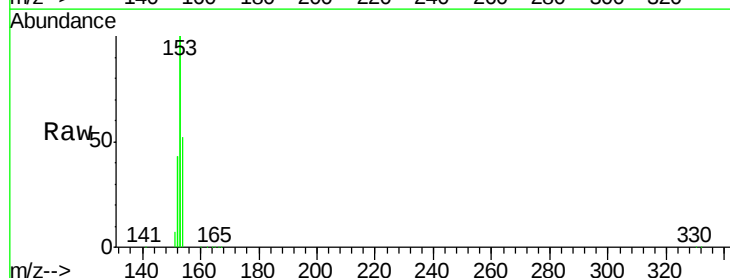
Tgt Ion:154 Resp: 12511

Ion Ratio Lower Upper

154 100

153 399.5 326.0 489.0

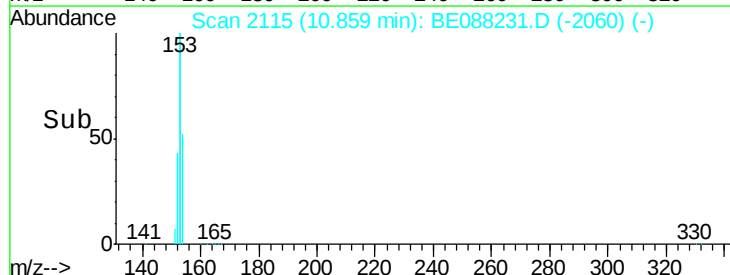
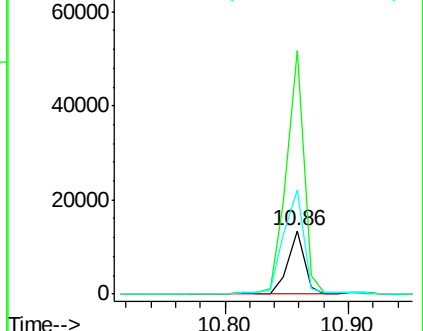
152 191.7 155.6 233.4

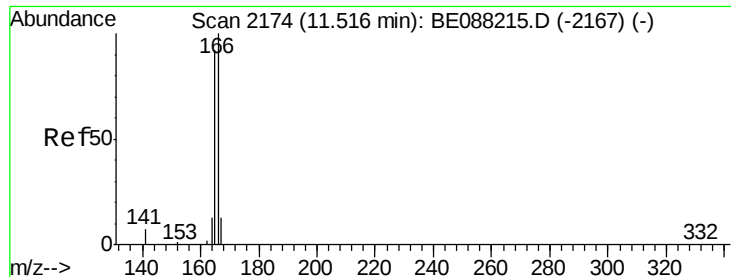


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 0.96 ng

RT: 11.52 min Scan# 2175

Delta R.T. 0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

Instrument :

BNA_E

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YS19-SS43-1014

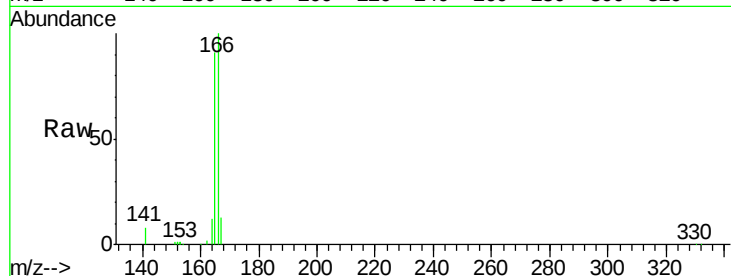
Tgt Ion:166 Resp: 15073

Ion Ratio Lower Upper

166 100

165 90.2 71.8 107.6

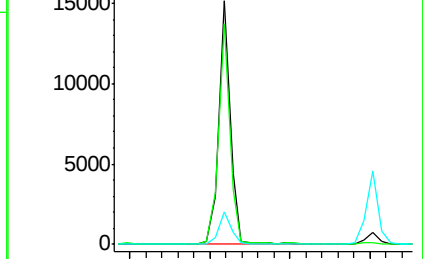
167 13.7 10.7 16.1



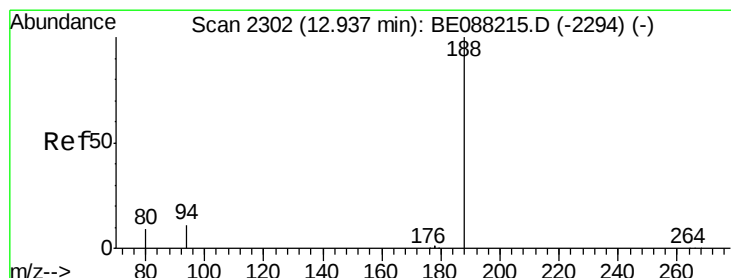
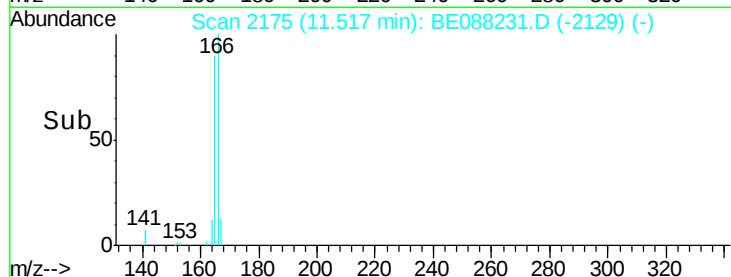
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.94 min Scan# 2303

Delta R.T. 0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

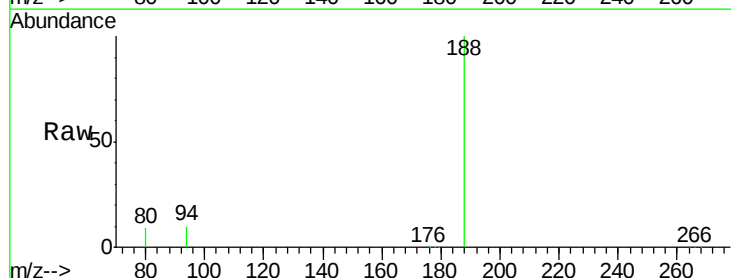
Tgt Ion:188 Resp: 136586

Ion Ratio Lower Upper

188 100

94 10.2 8.5 12.7

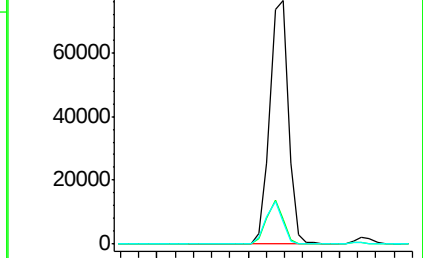
80 9.0 7.4 11.0



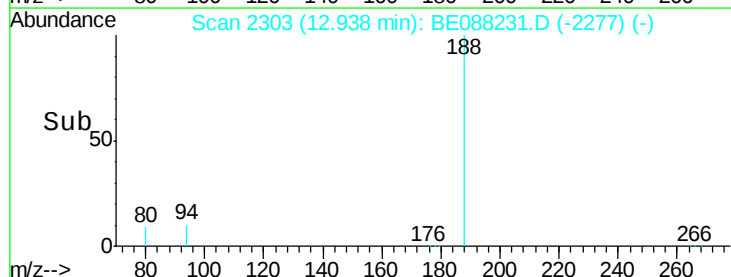
Abundance Ion 188.00 (187.70 to 188.70): E

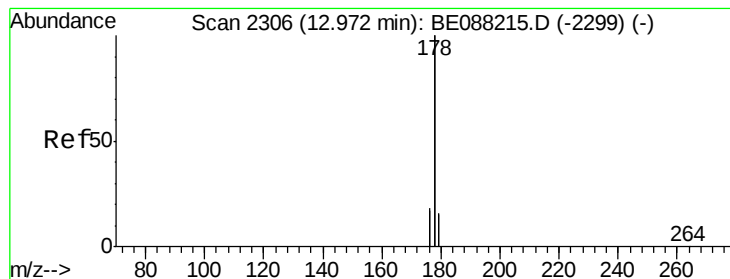
Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



Time-->





#13

Phenanthrene

Concen: 0.90 ng

RT: 12.97 min Scan# 2307

Delta R.T. 0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

Instrument :

BNA_E

ClientSampleId :

YS19-SS43-1014

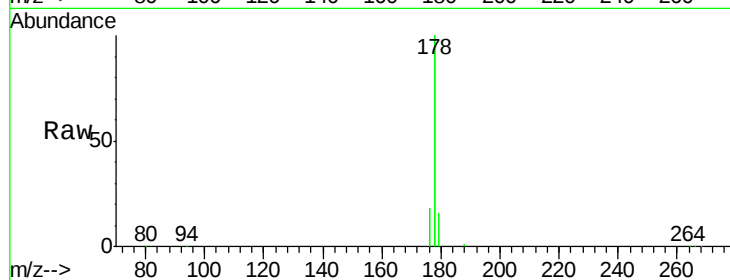
Tgt Ion:178 Resp: 118997

Ion Ratio Lower Upper

178 100

176 20.0 14.0 21.0

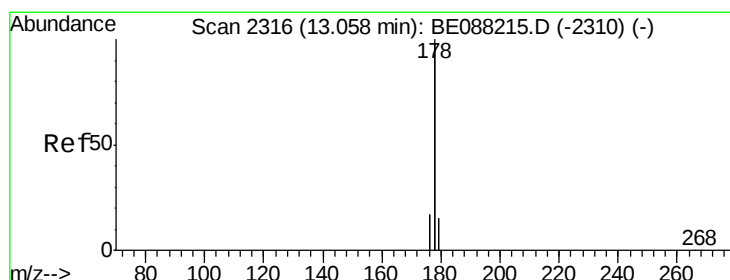
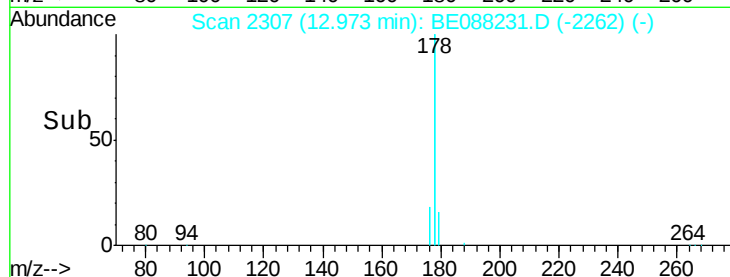
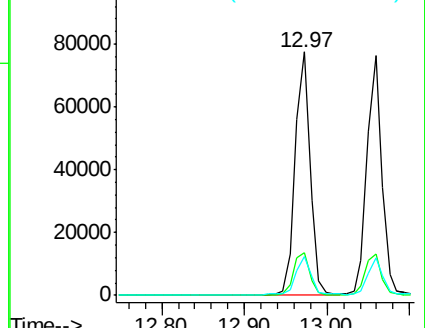
179 17.5 11.8 17.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#14

Anthracene

Concen: 1.00 ng

RT: 13.06 min Scan# 2317

Delta R.T. 0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

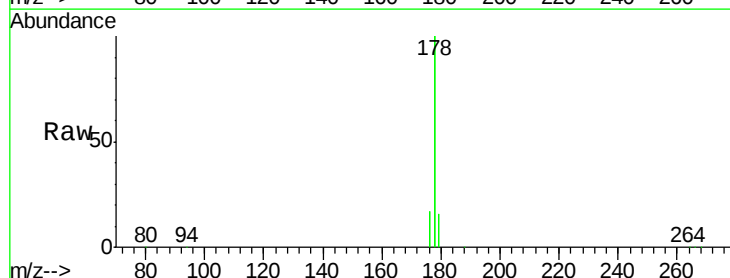
Tgt Ion:178 Resp: 97240

Ion Ratio Lower Upper

178 100

176 17.9 14.7 22.1

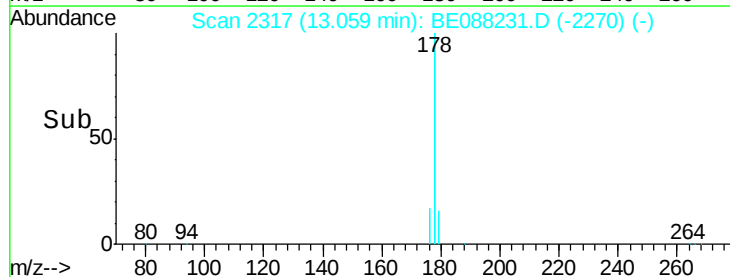
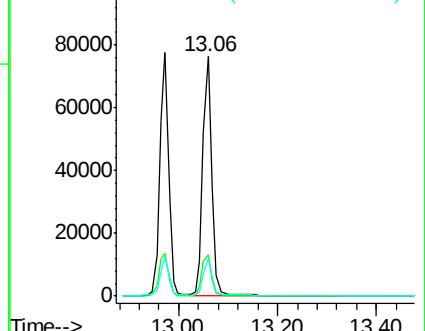
179 15.4 12.3 18.5

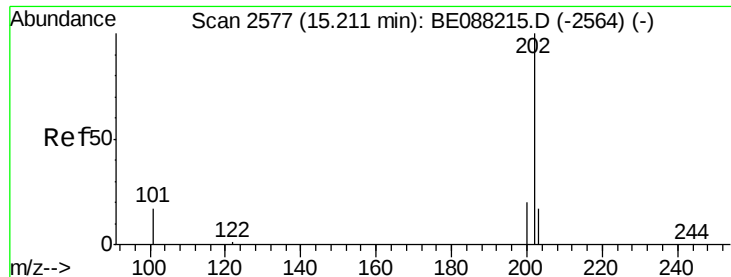


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 1.13 ng

RT: 15.21 min Scan# 2578

Delta R.T. -0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

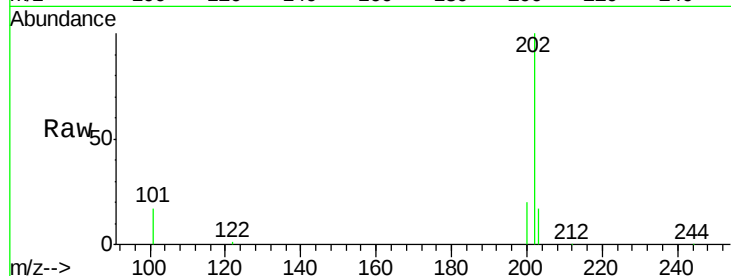
Instrument :

BNA_E

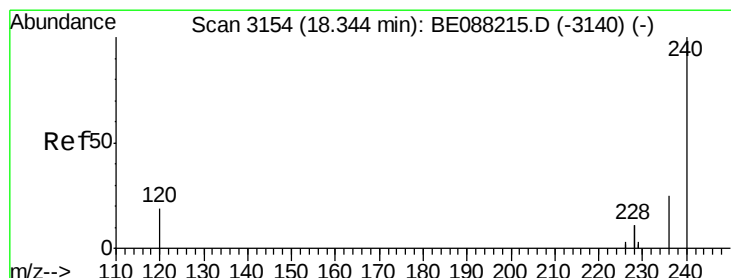
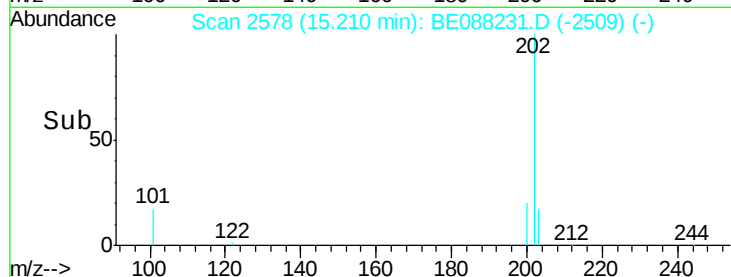
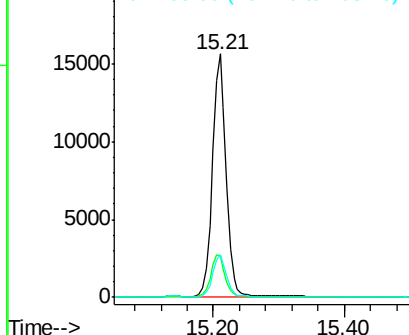
ClientSampleId :

YS19-SS43-1014

Tgt Ion:	202	Resp:	22507
Ion	Ratio	Lower	Upper
202	100		
101	17.8	14.4	21.6
203	17.1	13.4	20.2



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#16

Chrysene-d12

Concen: 5.00 ng

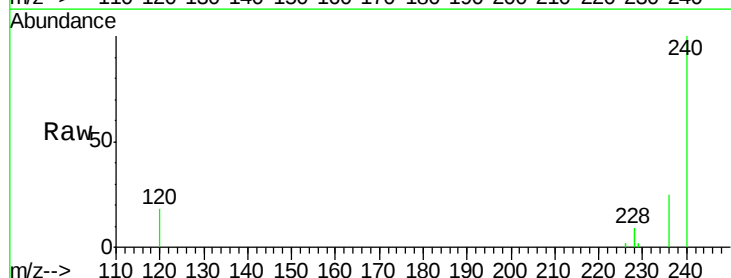
RT: 18.34 min Scan# 3155

Delta R.T. 0.00 min

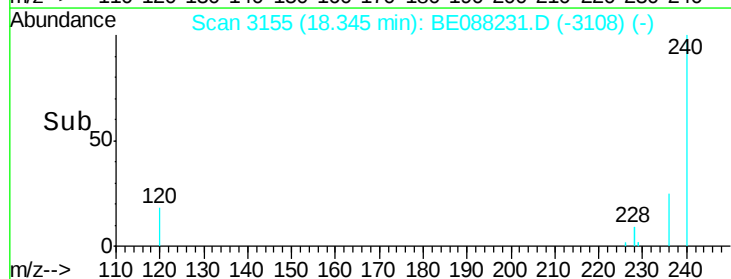
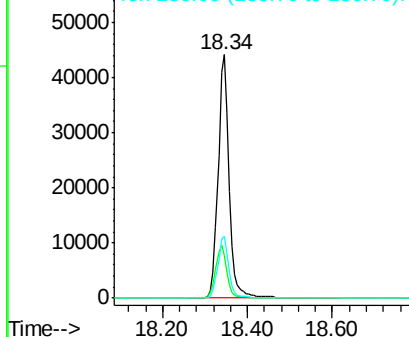
Lab File: BE088231.D

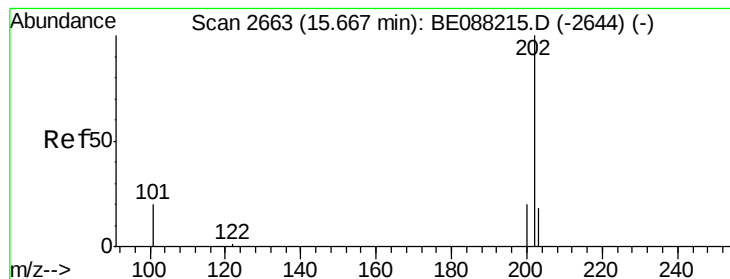
Acq: 25 Oct 2014 4:27

Tgt Ion:	240	Resp:	79251
Ion	Ratio	Lower	Upper
240	100		
120	17.8	15.1	22.7
236	25.2	20.1	30.1



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#17

Pyrene

Concen: 1.07 ng

RT: 15.66 min Scan# 2663

Delta R.T. -0.01 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

Instrument :

BNA_E

ClientSampleId :

YS19-SS43-1014

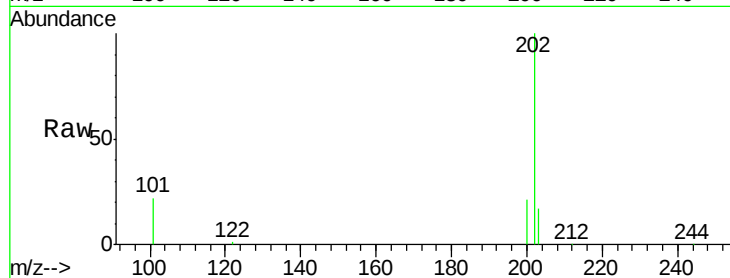
Tgt Ion:202 Resp: 23281

Ion Ratio Lower Upper

202 100

200 20.2 16.2 24.2

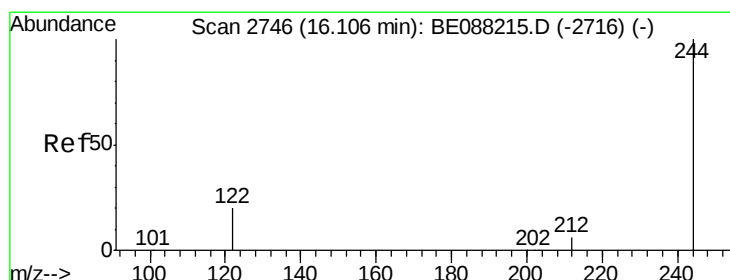
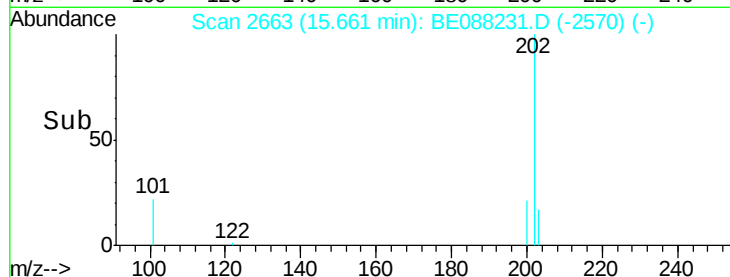
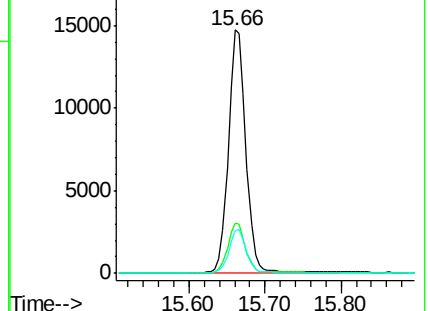
203 17.6 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#18

Terphenyl-d14

Concen: 36.69 ng

RT: 16.13 min Scan# 2751

Delta R.T. 0.02 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

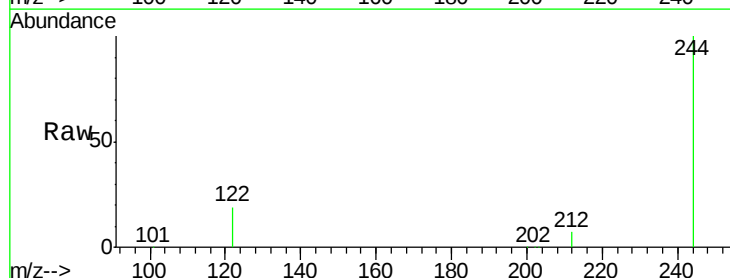
Tgt Ion:244 Resp: 476154

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.2

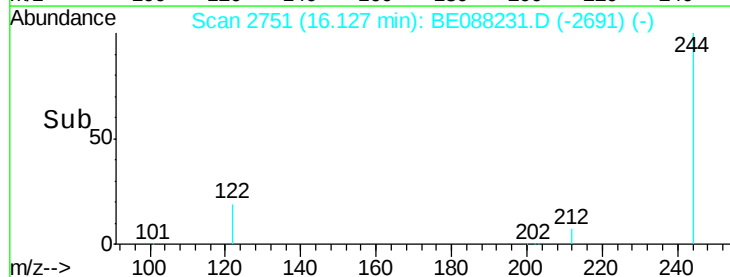
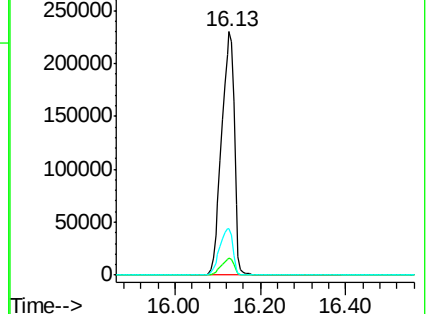
122 19.4 16.7 25.1

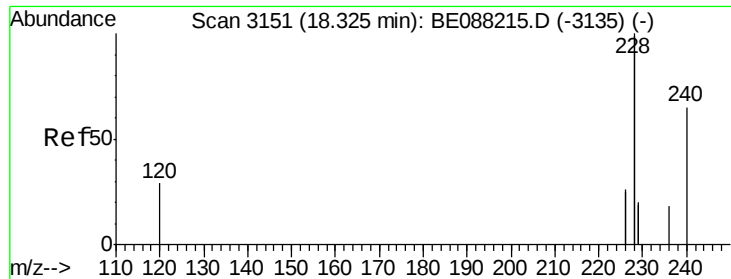


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 1.11 ng

RT: 18.33 min Scan# 3152

Delta R.T. 0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

Instrument :

BNA_E

ClientSampleId :

YS19-SS43-1014

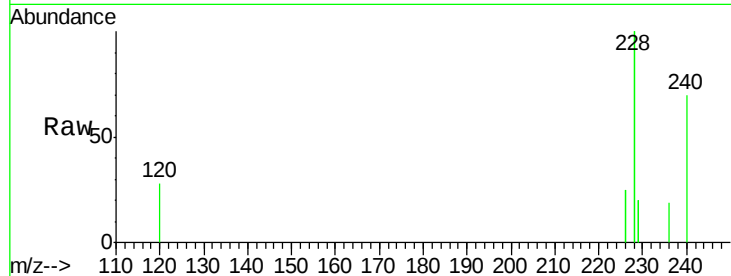
Tgt Ion:228 Resp: 69497

Ion Ratio Lower Upper

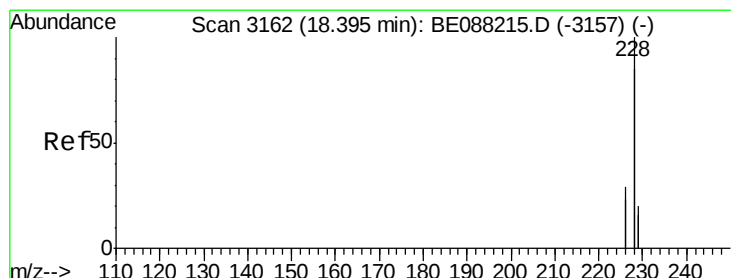
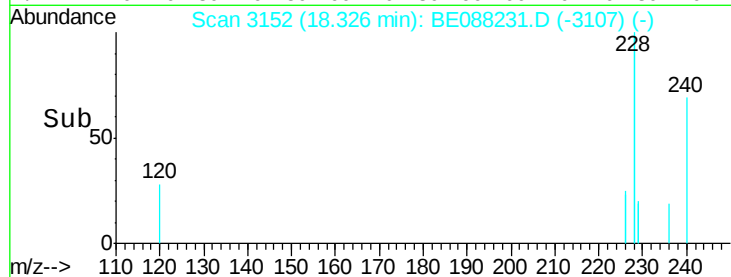
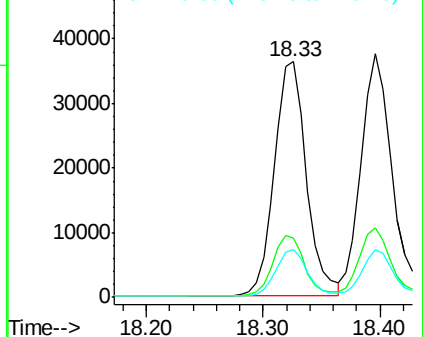
228 100

226 25.1 20.5 30.7

229 20.0 16.1 24.1



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#20

Chrysene

Concen: 1.02 ng

RT: 18.40 min Scan# 3163

Delta R.T. 0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

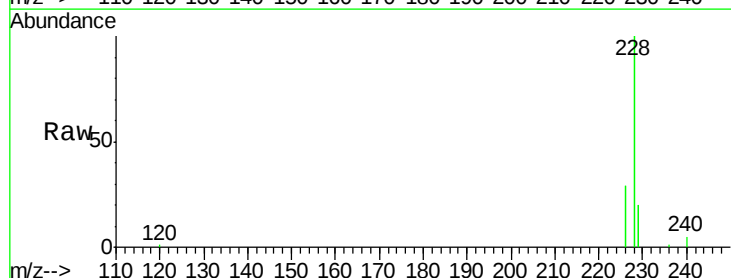
Tgt Ion:228 Resp: 71923

Ion Ratio Lower Upper

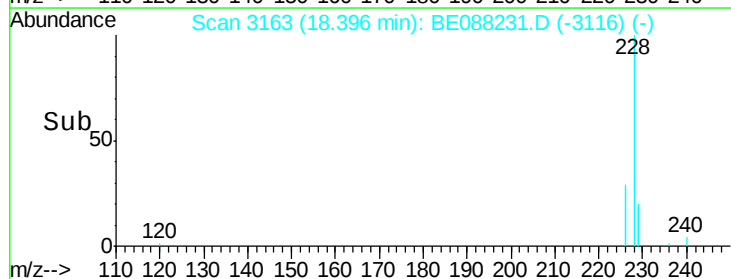
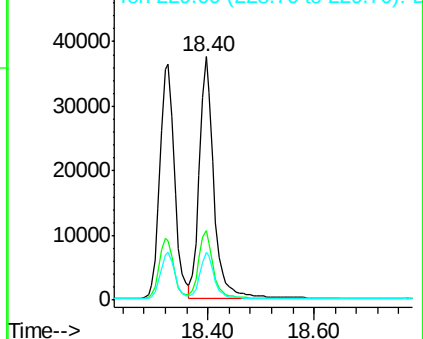
228 100

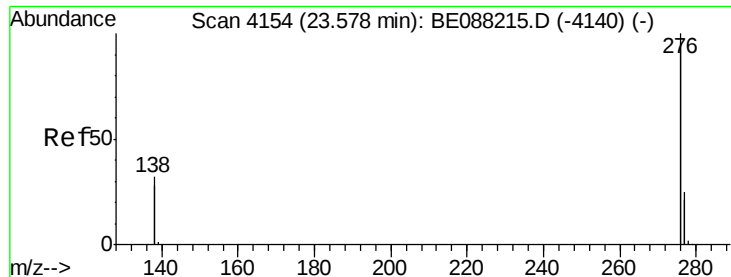
226 28.7 23.3 34.9

229 19.8 15.6 23.4



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.61 ng

RT: 23.57 min Scan# 4154

Delta R.T. -0.01 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

Instrument :

BNA_E

ClientSampleId :

YS19-SS43-1014

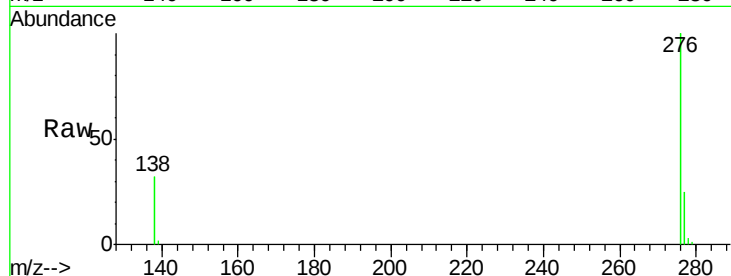
Tgt Ion: 276 Resp: 28614

Ion Ratio Lower Upper

276 100

138 29.8 13.9 20.9#

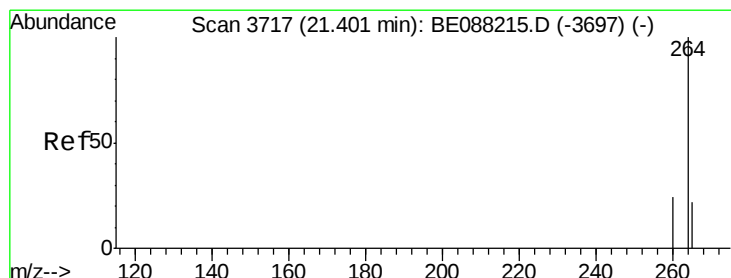
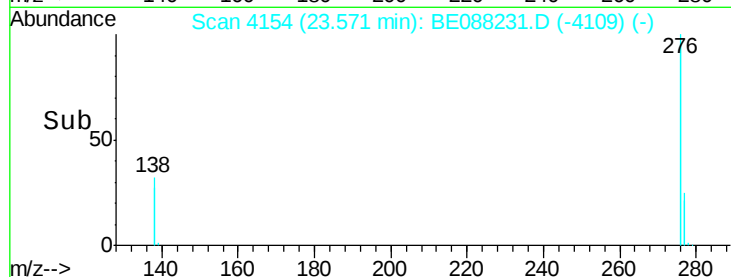
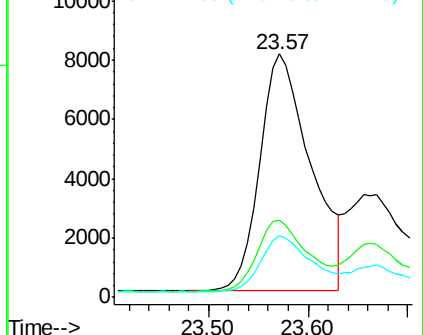
277 23.6 10.7 16.1#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#22

Perylene-d12

Concen: 5.00 ng

RT: 21.40 min Scan# 3717

Delta R.T. -0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

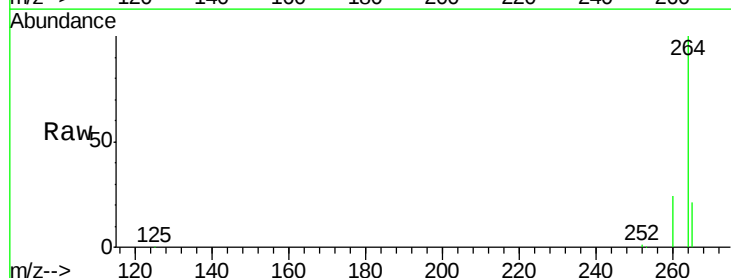
Tgt Ion: 264 Resp: 62027

Ion Ratio Lower Upper

264 100

260 23.7 19.0 28.4

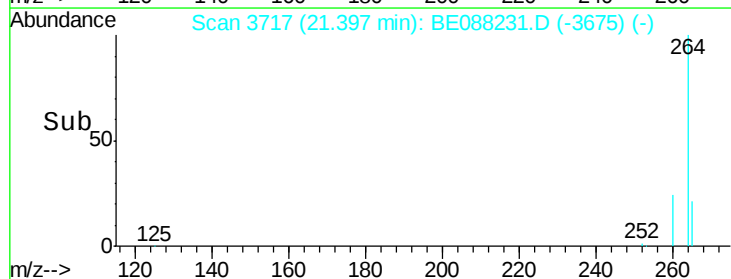
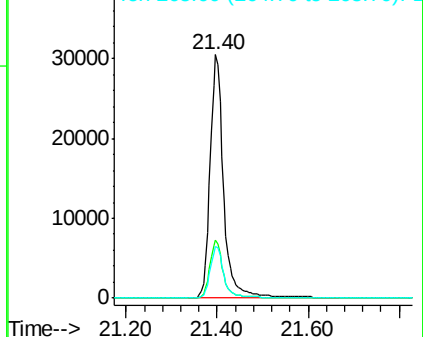
265 21.4 17.4 26.2

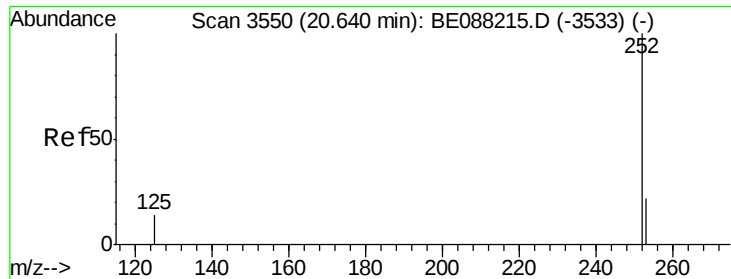


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 1.13 ng

RT: 20.64 min Scan# 3551

Delta R.T. 0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

Instrument :

BNA_E

ClientSampleId :

YS19-SS43-1014

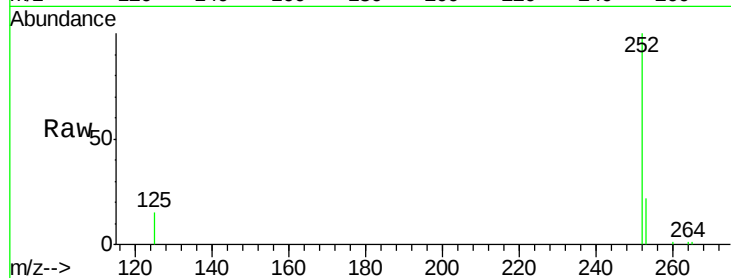
Tgt Ion:252 Resp: 13086

Ion Ratio Lower Upper

252 100

253 22.3 17.9 26.9

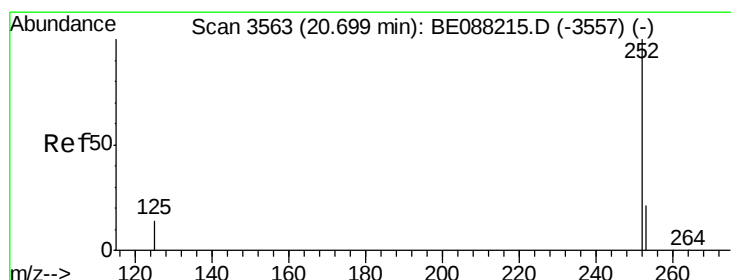
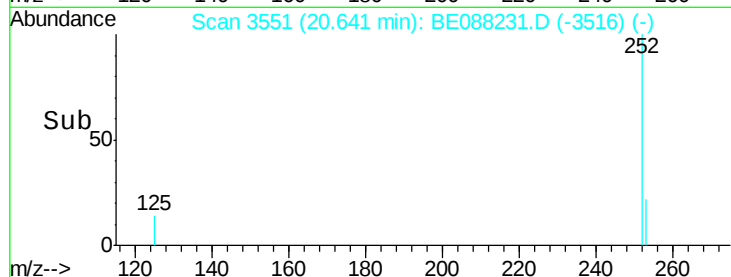
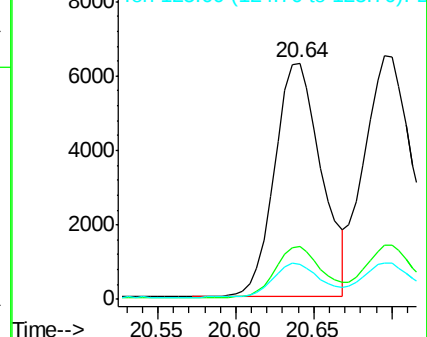
125 15.0 12.2 18.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#24

Benzo(k)fluoranthene

Concen: 1.06 ng

RT: 20.70 min Scan# 3563

Delta R.T. -0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

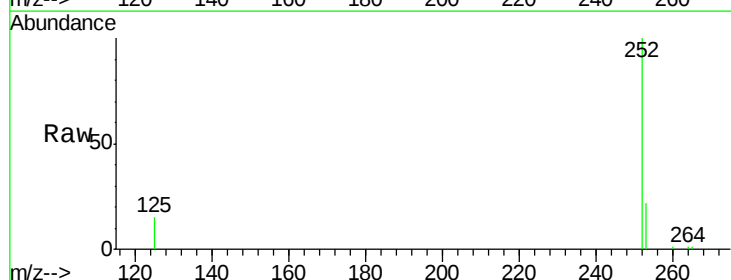
Tgt Ion:252 Resp: 16930

Ion Ratio Lower Upper

252 100

253 22.1 17.6 26.4

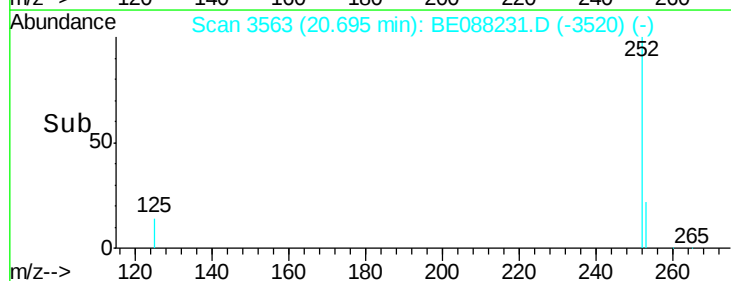
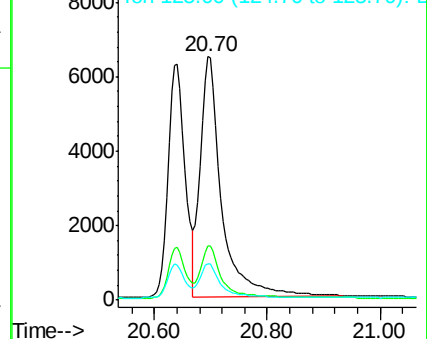
125 15.1 12.1 18.1

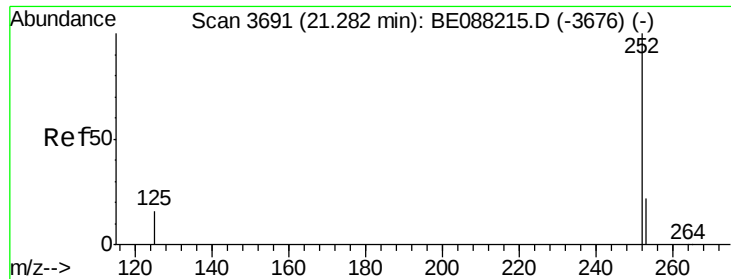


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 1.07 ng

RT: 21.28 min Scan# 3691

Delta R.T. -0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

Instrument :

BNA_E

ClientSampleId :

YS19-SS43-1014

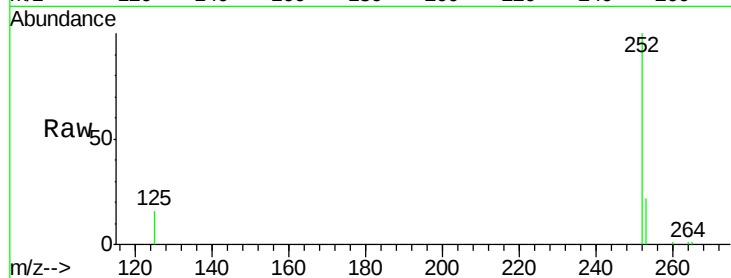
Tgt Ion:252 Resp: 12133

Ion Ratio Lower Upper

252 100

253 21.9 17.8 26.8

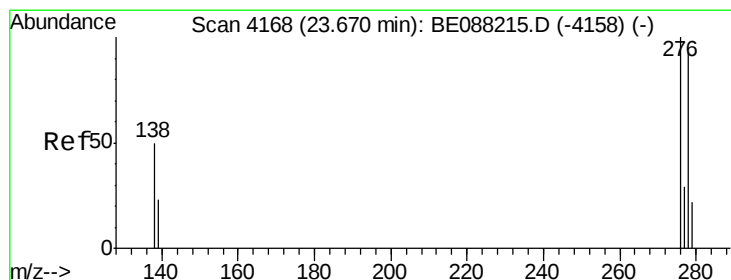
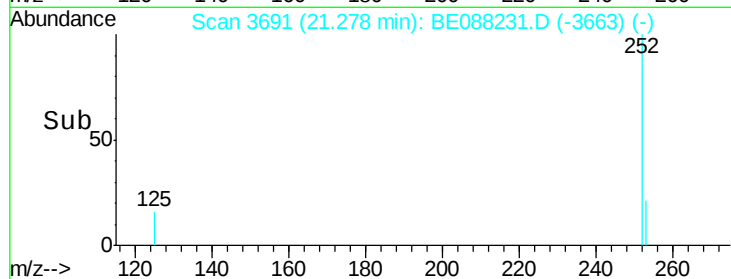
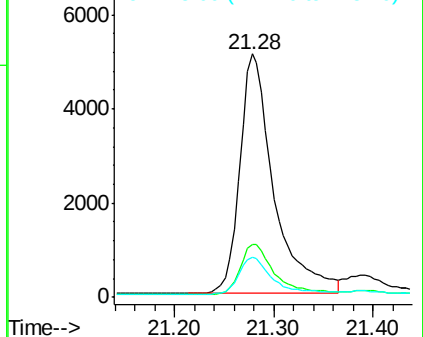
125 16.5 13.5 20.3



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#26

Dibenzo(a,h)anthracene

Concen: 0.86 ng

RT: 23.67 min Scan# 4169

Delta R.T. 0.00 min

Lab File: BE088231.D

Acq: 25 Oct 2014 4:27

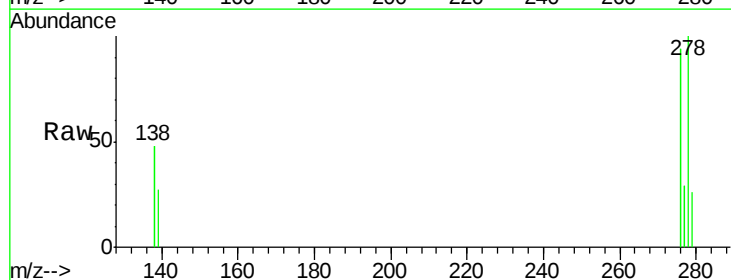
Tgt Ion:278 Resp: 8433

Ion Ratio Lower Upper

278 100

139 27.4 22.1 33.1

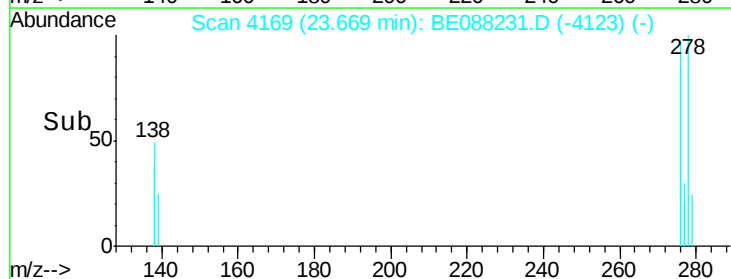
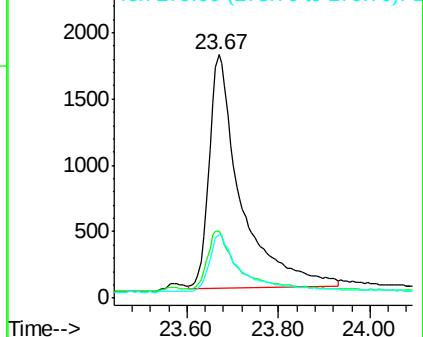
279 25.7 20.2 30.2

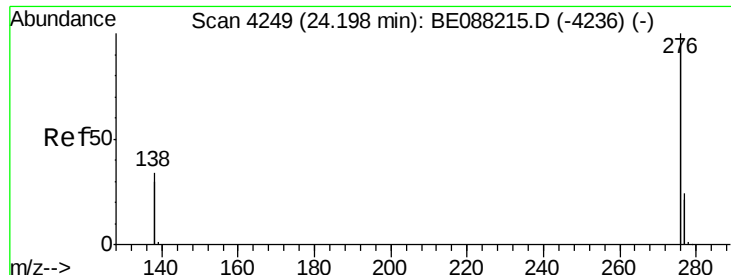


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#27

Benzo(g,h,i)perylene

Concen: 0.84 ng

RT: 24.19 min Scan# 4249

Delta R.T. -0.01 min

Lab File: BE088231.D

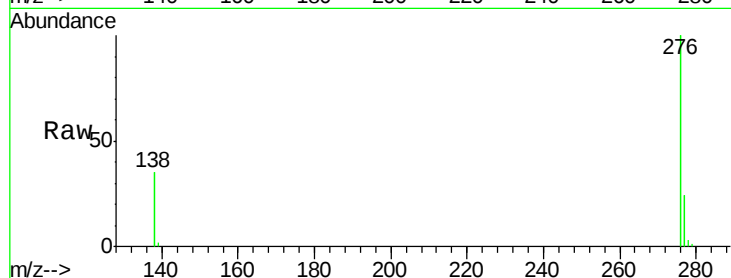
Acq: 25 Oct 2014 4:27

Instrument :

BNA_E

ClientSampleId :

YS19-SS43-1014



Tgt Ion: 276 Resp: 41764

Ion Ratio Lower Upper

276 100

277 24.4 19.4 29.2

138 34.8 27.3 40.9

Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

